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IN THE CLAIMS:

- (Currently Amended) A display device comprising:
- a display panel which is equipped with pixels including a light-emitting element;
- a temperature detection unit which detects an ambient a temperature;
- an A/D conversion circuit which converts detected data into digital data:
- a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored;
- an arithmetic operation unit which calculates a lighting period of each pixel corresponding to an environmental temperature using an output of the temperature detection unit the digital data, the temperature characteristic, and a digital video signal;
- a count unit which counts a cumulated lighting period of each pixel using an output of the arithmetic operation unit; and
- a correction unit which corrects the <u>digital</u> video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period and supplies the corrected <u>digital</u> video signal to the display panel.
- 2. (Currently Amended) A display device according to claim 1, wherein the arithmetic operation unit calculates an acceleration factor from the <u>digital data output of the temperature</u> detection unit and the temperature characteristic and calculates the lighting period of each pixel from a multiplication of the <u>digital</u> video signal and the acceleration factor.
- (Previously Presented) A display device according to claim 1, wherein the temperature detection unit is a light-emitting element.
 - 4-6. (Canceled)
- 7. (Currently Amended) A drive method for a display device having a display panel equipped with pixels including a light-emitting element, a temperature detection unit, a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored, an arithmetic operation unit, a count unit and a correction unit, comprising the steps of:

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detecting an ambient a temperature by the temperature detection unit;

converting detected data into digital data by A/D conversion circuit;

calculating a lighting period of each pixel eorresponding to an environmental temperature using the digital data an output of the temperature detection unit, the temperature characteristic, and a digital video signal by the arithmetic operation unit;

counting a cumulated lighting period of each pixel using an output of the arithmetic operation unit by the count unit;

correcting the <u>digital</u> video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period by the correction unit; and

displaying an image using the corrected digital video signal by the display panel.

- 8. (Currently Amended) A drive method for a display device according to claim 7, wherein the arithmetic operation unit calculates an acceleration factor from the output of the temperature detection unit the digital data and the temperature characteristic and calculates the lighting period of each pixel from a multiplication of the digital video signal and the acceleration factor.
- (Previously Presented) A drive method for a display device according to claim 7, wherein the temperature detection unit is a light-emitting element.

12. (Canceled)

- 13. (Currently Amended) A display device comprising:
- a display panel which is equipped with pixels including a light-emitting element;
- a temperature detection unit which detects an ambient a temperature:
- an A/D conversion circuit which converts detected data into digital data;
- a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored;

an arithmetic operation unit which calculates an acceleration factor using an output of the temperature detection unit the digital data and the temperature characteristic, calculates a lighting period of each pixel using a digital video signal and calculates a corrected lighting

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period of each pixel eorresponding to an environmental temperature using multiplication of the lighting period and the acceleration factor;

a count unit which counts a cumulated lighting period of each pixel using an output of the arithmetic operation unit: and

a correction unit which corrects a <u>digital</u> video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period and supplies the corrected digital video signal to the display panel.

14. (Previously Presented) A display device according to claim 13, wherein the temperature detection unit is a light-emitting element.

15-16. (Canceled)

17. (Currently Amended) A drive method for a display device having a display panel equipped with pixels including a light-emitting element, a temperature detection unit, a storage unit in which a temperature characteristic and an aging characteristic of the light-emitting element are stored, a count unit and a correction unit, comprising the steps of:

detecting ambient a temperature by the temperature detection unit;

converting detected data into digital data by A/D conversion circuit;

calculating an acceleration factor using an output of the temperature detection unit the digital data and the temperature characteristic, a lighting period of each pixel using a digital video signal and a corrected lighting period of each pixel eorresponding to an environmental temperature using multiplication of the lighting period and the acceleration factor by an arithmetic operation unit;

counting a cumulated lighting period of each pixel using an output of the arithmetic operation unit by the count unit;

correcting a <u>digital</u> video signal to be inputted to each pixel using the aging characteristic and the cumulated lighting period by the correction unit; and

displaying an image using the corrected digital video signal by the display panel.

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18. (Previously Presented) A drive method for a display device according to claim 17, wherein the temperature detection unit is a light-emitting element.